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# **Notice of Allowability**

Application No.

09/845,073

Examiner

Anabel M. Ton

Applicant(s)

LUK, JOHN F.

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## **-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 03/09/06.
2. ☒ The allowed claim(s) is/are 1-12, 14, 16-41, 59-124.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date <u>4/01</u> | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                           | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Myron Greenspan on March 24, 2006.

The application has been amended as follows: In claim 1, line 3 after "and" ENTER -----an open end at one axial end and -----

After "a" same line (3), ENTER-----predetermined dimension along said longitudinal axis between said open end and another axial end, said frame means defining a-----.

In line 6 after "longitudinal axis", ENTER-----said open end defining a dimension transverse to said longitudinal axis which is less than said predetermined longitudinal dimension; -----

In line 8 after "wherein", DELETE "each".

In line 8 after "wherein", ENTER -----at least one-----

In line 9 after "is", DELETE "individually"

In line 9 after "skewered to", ENTER -----a normal direction of-----.

In line 10 after "and" DELETE "directly"

In claim 12, line 3, after "and", ENTER -----an open end at one axial end and -----

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After "a", same line (3) ENTER -----predetermined dimension along said longitudinal axis between said open end and another axial end, said frame means defining a-----.

In line 6 after "longitudinal axis", ENTER -----said open end defining a dimension transverse to said longitudinal axis which is less than said predetermined longitudinal dimensions; -----

In line 9 after "wherein" DELETE "each"

In line 9 after "wherein" ENTER ----- at least one-----

In line 9 after "diode is" DELETE " individually"

In line 9 after "skewered to" ENTER -----a normal direction of-----

In line 10 after "and" DELETE "directly".

### ***Allowable Subject Matter***

2. Claims 1-12,14,16-41, 59-124 are allowed.

3. The following is an examiner's statement of reasons for allowance: The prior art cited does not anticipate individually or teach in combination the following subject matter:

- The subject matter as now amended in claims 1 and 12;

- A sandwich frame for supporting a plurality of light emitting diodes, said sandwich frame including a positive electrically conductive layer and a negative conductive layer interposed between layers of bias able insulating foam, said sandwich frame defining a hollow volume having an interior volume surface and a closed plane aperture having a circular periphery said plurality of diodes being positioned within said interior volume in association with said interior volume surface, said diode light beams emitting from said plurality of diodes being directed through said closed plane aperture, means for mounting each diode of said plurality of diodes to said frame and simultaneously for positioning said plurality of diodes wherein each discrete diode light beam is directed to a prescribed focal point and thereupon directed to a predetermined illumination area, and means for mounting including at least one pin removably positioned in said layers of foam, via at least one pin including positive and negative electrical leads in electrical contact with said positive and negative conductive layers said bias able foam having an elasticity said bias able foam having an elasticity threshold at least equal to the maximum pressure exerted by said at least one pin; and electrical power for transmitting and controlling electrical voltage to said positive and negative conductive layer and to said plurality of light emitting diodes .
- Frame means for supporting a plurality and light emitting diodes, means for mounting each diode of said plurality of diodes to said frame means and simultaneously for positioning said plurality of diodes wherein each discrete

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diode light is directed to a prescribed remote focal point (target zone) and thereupon directed to a predetermined illumination area, and circuit board means structurally associated with said frame means for transmitting and controlling electrical voltage to said plurality of light emitting diodes, wherein said frame means includes a mounting template and said means for mounting includes said mounting template forming a plurality of individually positioned mounting steps wherein each said diode of said plurality of diodes is positioned at one mounting step of said plurality of mounting steps wherein each said discrete diode light beam is independently directed to said focal point, and wherein said mounting template is configured so as to define a hollow volume having an interior volume surface and a closed plane aperture having a periphery said plurality of diodes being positioned and arranged at said mounting steps so as to assume the configuration of said interior volume surface, said diode light beams emitting from said diodes being directed through said closed plane aperture, and further wherein said hollow volume is configured as a hollow cone where said closed plane aperture is configured as a cone closed plane aperture defined between the vertex of said cone and said cone periphery

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

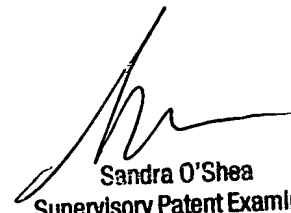
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anabel M Ton  
Examiner  
Art Unit 2875

AMT



Sandra O'Shea  
Supervisory Patent Examiner  
Technology Center 2800